

# Java Resources

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**Green:** Beginners

**Red:** Intermediate

- **Introduction to Java:**

1. GeeksforGeeks: <https://www.geeksforgeeks.org/java-how-to-start-learning-java/>
2. Tutorialspoint: <https://www.tutorialspoint.com/java/index.htm>
3. JavaTPoint: <https://www.javatpoint.com/java-tutorial>

- **Syntax and Common Coding Practices:**

1. First Java Program: <https://beginnersbook.com/2013/05/first-java-program/>
2. Learn about variables, operators and data types:
  - a. <https://beginnersbook.com/2017/08/variables-in-java/>
  - b. <https://beginnersbook.com/2017/08/data-types-in-java/>
  - c. <https://beginnersbook.com/2017/08/operators-in-java/>
3. Basic Syntax: [https://www.tutorialspoint.com/java/java\\_basic\\_syntax.htm](https://www.tutorialspoint.com/java/java_basic_syntax.htm)

- **Basic Data Structures (Collections):**

**Summary File:**

[https://docs.google.com/presentation/d/1UVH8URMty48ZfVLqTEO4qKGIBQWfbN38uE\\_i9Mh8QQo/edit#slide=id.g7c39967a0f\\_1\\_13](https://docs.google.com/presentation/d/1UVH8URMty48ZfVLqTEO4qKGIBQWfbN38uE_i9Mh8QQo/edit#slide=id.g7c39967a0f_1_13)

1. **ArrayList**: <https://www.javatpoint.com/java-arraylist>
2. **LinkedList**: <https://www.javatpoint.com/java-linkedlist>
3. **Queue/ Priority Queue**: <https://www.javatpoint.com/java-priorityqueue>
4. **Stack**: <https://www.javatpoint.com/java-stack>
5. **HashSet**: <https://www.javatpoint.com/java-hashset>
6. **HashMap (Unordered Map)**: <https://www.javatpoint.com/java-hashmap>
7. **TreeMap (Ordered Map)**: <https://www.javatpoint.com/java-treemap>

- **Domain Specific Resources:**

- OOPS:**

- 1. <https://www.javatpoint.com/java-oops-concepts>
    - 2. <https://www.geeksforgeeks.org/object-oriented-programming-oops-concept-in-java/>
    - 3. **Interview Questions:**  
<https://www.interviewbit.com/oops-interview-questions/>

- **Basic Questions:**

- 1. **Array:**

- ☐ <https://leetcode.com/problems/build-array-from-permutation/>
    - ☐ <https://leetcode.com/problems/concatenation-of-array/>
    - ☐ <https://leetcode.com/problems/running-sum-of-1d-array/>
    - ☐ <https://leetcode.com/problems/final-value-of-variable-after-performing-operations/>
    - ☐ <https://leetcode.com/problems/shuffle-the-array/>

- 2. **Strings:**

- ☐ <https://leetcode.com/problems/final-value-of-variable-after-performing-operations/>
    - ☐ <https://leetcode.com/problems/defanging-an-ip-address/>
    - ☐ <https://leetcode.com/problems/jewels-and-stones/>
    - ☐ <https://leetcode.com/problems/shuffle-string/>
    - ☐ <https://leetcode.com/problems/sorting-the-sentence/>

- 3. **LinkedList:**

- ☐ <https://leetcode.com/problems/middle-of-the-linked-list/>
    - ☐ <https://leetcode.com/problems/delete-node-in-a-linked-list/>
    - ☐ <https://leetcode.com/problems/reverse-linked-list/>
    - ☐ <https://leetcode.com/problems/merge-two-sorted-lists/>
    - ☐ <https://leetcode.com/problems/remove-duplicates-from-sorted-list/>

- 4. **Queue:**

- ☐ <https://leetcode.com/problems/number-of-recent-calls/>
    - ☐ <https://leetcode.com/problems/number-of-students-unable-to-eat-lunch/>
    - ☐ <https://leetcode.com/problems/first-unique-character-in-a-string/>
    - ☐ <https://leetcode.com/problems/implement-stack-using-queues/>

- 5. **Stack:**

- ☐ <https://leetcode.com/problems/valid-parentheses/>

- ☐ <https://leetcode.com/problems/min-stack/>
- ☐ <https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/>
- ☐ <https://leetcode.com/problems/maximum-nesting-depth-of-the-parentheses/>

6. HashSet & HashMap:

- ☐ <https://leetcode.com/problems/design-hashset/>
- ☐ <https://leetcode.com/problems/design-hashmap/>
- ☐ <https://leetcode.com/problems/two-sum/>
- ☐ <https://leetcode.com/problems/k-diff-pairs-in-an-array/submissions/>